

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Canceled)

2. (Original) A mobile communication terminal apparatus which alternately sets a wakeup period and a sleep period in a standby state and receives a radio signal transmitted from an active base station during synchronization establishment and a radio signal transmitted from a neighboring base station existing near the active base station in a wakeup period, comprising:

first detection means for detecting a reception quality of the radio signal from the active base station in the wakeup period;

second detection means for detecting a reception quality of the radio signal from the neighboring base station in the wakeup period;

third detection means for detecting a difference between the reception quality detected by the first detection means and the reception quality detected by the second detection means; and

setting means for setting a duration of a wakeup period as a next reception target in accordance with the reception quality difference detected by the third detection means.

3. (Currently Amended) ~~[[The]]~~ A mobile communication terminal apparatus according to claim 1, which alternately sets a wakeup period and a sleep period in a standby state in a single system and receives a radio signal transmitted from an active base station during synchronization establishment in a wakeup period, comprising:

detection means for detecting a reception quality of the radio signal in the wakeup period; and

setting means for setting a duration of a wakeup period as a next reception target in accordance with the detected reception quality,

wherein the setting means includes~~[[:]]~~:

comparison means for comparing the reception quality detected by the detection means with a first threshold;

first setting means for setting a duration of a first wakeup period as ~~[[a]]~~ the next reception target to a first time period if it is determined on the basis of the comparison result obtained by the comparison means that the detected reception quality is not less than the first threshold; and

second setting means for setting the duration of a second wakeup period as the next reception target to a second time period longer than the first time period if it is determined on the basis of the comparison result obtained by the comparison means that the detected reception quality is less than the first threshold.

4. (Original) The apparatus according to claim 3, wherein when the detection means is to receive a plurality of symbols of the radio signal and obtain an average of reception qualities thereof, the first setting means sets a reception target symbol count

of the radio signal in the wakeup period as the next reception target to a first value if the obtained average of the reception qualities is not less than the first threshold, and the second setting means sets the reception target symbol count of the radio signal in the wakeup period as the next reception target to a second value larger than the first value if the obtained average of the reception qualities is less than the first threshold.

5. (Original) The apparatus according to claim 2, wherein the setting means:
comparison means for comparing the reception quality difference detected by the third detection means with a threshold;

first setting means for setting a duration of a wakeup period as a next reception target to a first time if it is determined on the basis of the comparison result obtained by the comparison means that the detected reception quality is not less than the threshold;
and

second setting means for setting the duration of the wakeup period as the next reception target to a second time longer than the first time if it is determined on the basis of the comparison result obtained by the comparison means that the detected reception quality is less than the threshold.

6. (Original) The apparatus according to claim 5, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the active base station and the neighboring base station and obtain averages of reception qualities,

the first setting means sets a reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a first value if the detected reception quality difference is not less than the threshold, and

the second setting means sets the reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a second value larger than the first value if the detected reception quality difference is less than the threshold.

7. (Original) The apparatus according to claim 5, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the active base station and the neighboring base station and obtain averages of reception qualities,

the first setting means sets the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a third value if the detected reception quality difference is not less than the threshold, and

the second setting means sets the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a fourth value larger than the third value if the detected reception quality difference is less than the threshold.

8. (Original) The apparatus according to claim 5, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the

active base station and the neighboring base station and obtain averages of reception qualities,

the first setting means sets, if the detected reception quality difference is not less than the threshold, the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a fifth value and sets the reception target symbol count of the radio signal from the active base station to a sixth value not less than the fifth value, and

the second setting means respectively sets, if the detected reception quality difference is less than the threshold, reception target symbol counts of radio signals from the neighboring base station and the active base station in the wakeup period as the next reception target to seventh and eighth values larger than the fifth and sixth values.

9. (Original) A mobile communication terminal apparatus which alternately sets a wakeup period and a sleep period in a standby state and receives a radio signal transmitted from an active base station during synchronization establishment in a wakeup period, comprising:

first detection means for detecting a reception quality of the radio signal transmitted from the active base station in the wakeup period;

first comparison means for comparing the reception quality detected by the first detection means with a first threshold;

second comparison means for comparing the reception quality detected by the first detection means with a second threshold set to be lower than the first threshold;

first setting means for setting a duration of the wakeup period as the next reception target to a first time if it is determined on the basis of the comparison results obtained by the first and second comparison means that the detected reception quality is not less than the first threshold;

second setting means for setting the duration of the wakeup period as the next reception target to a second time longer than the first time if it is determined on the basis of the comparison results obtained by the first and second comparison means that the detected reception quality is less than the first threshold and not less than the second threshold;

second detection means for detecting a reception quality of a radio signal transmitted from a neighboring base station existing near the active base station if it is determined on the basis of the comparison result obtained by the second comparison means that the detected reception quality is less than the second threshold;

third detection means for detecting a difference between the reception quality detected by the first detection means and the reception quality detected by the second detection means;

third comparison means for comparing the reception quality detected by the third detection means with a third threshold;

third setting means for setting the duration of the wakeup period as the next reception target to a third time longer than the second time if it is determined on the basis of the comparison result obtained by the third comparison means that the detected reception quality difference is not less than the third threshold; and

fourth setting means for setting the duration of the wakeup period as the next reception target to a fourth time longer than the third time if it is determined on the basis of the comparison result obtained by the third comparison means that the detected reception quality difference is less than the third threshold.

10. (Original) The apparatus according to claim 9, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the active base station and the neighboring base station and obtain averages of reception qualities,

the first setting means sets a reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a first value if the obtained average of the reception qualities is not less than a first threshold, and

the second setting means sets the reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a second value larger than the first value if the obtained average of the reception qualities is less than the threshold.

11. (Original) The apparatus according to claim 9, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the active base station and the neighboring base station and obtain averages of reception qualities,

the third setting means sets the reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a third value if the detected reception quality difference is not less than the third threshold, and

the fourth setting means sets the reception target symbol count of the radio signal from the active base station in the wakeup period as the next reception target to a fourth value larger than the third value if the detected reception quality difference is less than the third threshold.

12. (Original) The apparatus according to claim 9, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the active base station and the neighboring base station and obtain averages of reception qualities,

the third setting means sets the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a fifth value if the detected reception quality difference is not less than the third threshold, and

the fourth setting means sets the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a sixth value larger than the fifth value if the detected reception quality difference is less than the third threshold.

13. (Original) The apparatus according to claim 9, wherein when the first and second detection means are to receive a plurality of symbols of radio signals from the

active base station and the neighboring base station and obtain averages of reception qualities,

the third setting means sets, if the detected reception quality difference is not less than the threshold, the reception target symbol count of the radio signal from the neighboring base station in the wakeup period as the next reception target to a seventh value and sets the reception target symbol count of the radio signal from the active base station to an eighth value not less than the seventh value, and

the fourth setting means respectively sets, if the detected reception quality difference is less than the threshold, reception target symbol counts of radio signals from the neighboring base station and the active base station in the wakeup period as the next reception target to ninth and 10th values larger than the seventh and eighth values.